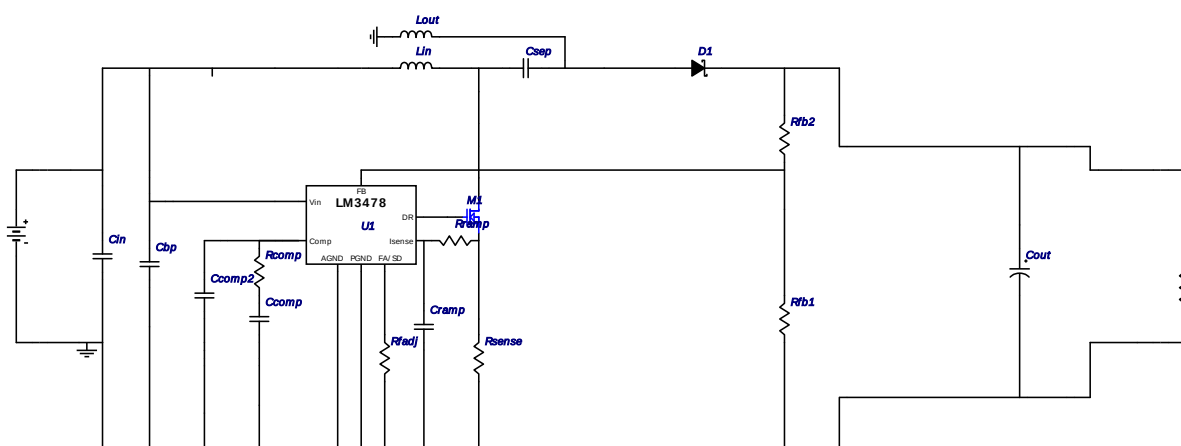
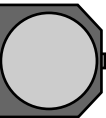
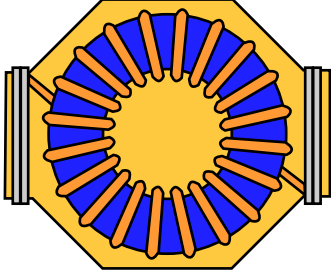




Device = LM3478MM
Topology = SEPIC
Created = 7/24/12 3:22:39 AM
BOM Cost = \$NaN
Total Pd = 0.0 W
Footprint = NaN
BOM Count = 11



#	Name	Manufacturer	Part Number	Quantity	Price	Properties	Footprint
1.	Cbp	Kemet	C0603C104K5RACTU Series= X7R	1	\$0.01	Cap= 100.0 nF VDC= 50.0 V IRMS= 0.0 A	 0603 10mm2
2.	Ccomp	MuRata	GRM155R60J474KE19D Series= X5R	1	\$0.01	Cap= 470.0 nF VDC= 6.3 V IRMS= 0.0 A	 0402 8mm2
3.	Ccomp2	MuRata	GRM2165C1H302JA01D Series= C0G/NP0	1	\$0.04	Cap= 3.0 nF VDC= 50.0 V IRMS= 0.0 A	 0805 13mm2
4.	Cin	TDK	C3225X5R1E106K Series= X5R	2	\$0.15	Cap= 10.0 µF ESR= 15.0 mOhm VDC= 25.0 V IRMS= 3.0 A	 1210 23mm2
5.	Cout	Nippon Chemi-Con	APXA160ARA331MJC0G Series= PXA	2	\$0.98	Cap= 330.0 µF ESR= 14.0 mOhm VDC= 16.0 V IRMS= 5.05 A	 CAPSMT_62_JC0 156mm2
6.	Cramp	Yageo America	CC0805KRX7R9BB222 Series= X7R	1	\$0.01	Cap= 2.2 nF VDC= 50.0 V IRMS= 0.0 A	 0805 13mm2
7.	Csep	MuRata	GRM21BR61E475MA12L Series= X5R	2	\$0.06	Cap= 4.7 µF ESR= 2.0 mOhm VDC= 25.0 V IRMS= 7.29 A	 0805 13mm2

#	Name	Manufacturer	Part Number	Quantity	Price	Properties	Footprint
8.	D1	Vishay-Semiconductor	12CWQ06FNPBF	1	\$0.72	VF@Io= 790.0 mV VRRM= 60.0 V	 DPAK 102mm2
9.	Lin	Coilcraft	XAL1010-103MEB	1	\$1.08	L= 10.0 µH DCR= 10.0 mOhm	 XAL1010 160mm2
10.	Lout	Bourns	PM2120-330K-RC	1	\$1.35	L= 33.0 µH DCR= 13.0 mOhm	 PM2120 890mm2
11.	M1	Infineon Technologies	BSZ097N04LS G	1	\$0.30	VdsMax= 40.0 V IdsMax= 40.0 Amps	 PG-TSDSON-8 29mm2
12.	Rcomp	Vishay-Dale	CRCW08051K10FKEA Series= CRCW..e3	1	\$0.01	Res= 1.1 kOhm Power= 125.0 mW Tolerance= 1.0%	 0805 13mm2
13.	Rfadj	Vishay-Dale	CRCW0805143KFKEA Series= CRCW..e3	1	\$0.01	Res= 143.0 kOhm Power= 125.0 mW Tolerance= 1.0%	 0805 13mm2
14.	Rfb1	Vishay-Dale	CRCW080510K0FKEA Series= CRCW..e3	1	\$0.01	Res= 10.0 kOhm Power= 125.0 mW Tolerance= 1.0%	 0805 13mm2
15.	Rfb2	Vishay-Dale	CRCW080584K5FKEA Series= CRCW..e3	1	\$0.01	Res= 84.5 kOhm Power= 125.0 mW Tolerance= 1.0%	 0805 13mm2
16.	Rramp	Vishay-Dale	CRCW0805100RFKEA Series= CRCW..e3	1	\$0.01	Res= 100.0 Ohm Power= 125.0 mW Tolerance= 1.0%	 0805 13mm2
17.	Rsense	Panasonic	ERJ-M1WSF4M0U Series= 1119	1	\$0.15	Res= 4.0 mOhm Power= 1.0 W Tolerance= 1.0%	 2512 43mm2
18.	U1	Texas Instruments	LM3478MM	1	\$0.80	Switcher	 MUA08A 34mm2

Operating Values

#	Name	Value	Category	Description
1.	BOM Count	11.0	General	Total Design BOM count
2.	Total Pd	0.0 W	Power	Total Power Dissipation

Design Inputs

#	Name	Value	Description
1.	Iout	6.0 A	Maximum Output Current
2.	Iout1	6.0 Amps	Output Current #1
3.	VinMax	19.0 V	Maximum input voltage
4.	VinMin	8.0 V	Minimum input voltage
5.	Vout	12.0 V	Output Voltage
6.	Vout1	12.0 Volt	Output Voltage #1
7.	base_pn	LM3478	National Based Product Number
8.	Ta	30.0 degC	Ambient temperature
9.	UserFsw	150.0 kHz	Customer Selected Frequency

Design Assistance

1. **LM3478** Product Folder : <http://www.ti.com/product/LM3478> : contains the data sheet and other resources.

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